

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Improvements to roads and drains at Thindlu colony Katteramma temple Bhovi Colony and Kempegowdanagar in ward no:09 Vidyaranyapura

Estimate Cost:

9900000

Description	Unit	No.	L	B	D	Qty	Rate	Amount
1. KSRRB 14020-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications. MORTH Specification No. 202 Page No. 140, Item No. 18.47, PWD SR 2018-19	Cum							
CC Road								
Bhovi Colony near Katteramma Temple		1	80.00	3.60	0.20	57.60		
10th cross		1	43.00	3.30	0.25	35.48		
15th cross		1	54.00	3.20	0.25	43.20		
7th cross		1	118.00	3.40	0.25	100.30		
8th cross		1	50.00	3.00	0.25	37.50		
Bhuvanendur road		1	68.00	4.50	0.25	76.50		
Bhuvan Road, 4th main		1	146.00	4.40	0.25	160.60		
Kempegowdanagar Road		1	92.00	4.80	0.25	110.40		
Basic Rate	899.00					621.58	1059.02	658260.00
Area Weightage @ 6%	53.94							
Total	952.94							
Add: loading and unloading Charges It No 17.1 KSRRB M 1204-1	68.00							
Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 Tonne / km X 2.5 Tonne / km = 38.08	38.08							
Total	1059.02							
2. KSRRB 100-12. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 21 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Page No. 100 / Item No. 19.1. PWD SR 2018-19	Cum							
CC Road								
10th cross 4th cross		2	72.00	1.00	1.00	144.00		
10th cross		1	30.00	1.00	0.95	27.75		
10th cross		1	43.00	1.00	1.00	43.00		
10th cross		1	45.00	1.00	1.00	45.00		
7th cross		2	75.00	1.00	1.00	150.00		
8th cross		1	52.30	1.00	1.00	52.30		
10th cross		1	3.70	1.40	1.00	5.18		
Basic Rate	130.00					467.23	243.88	113947.00
Area Weightage @6%	7.80							
Total	137.80							
Add: loading and unloading Charges It No 17.1 KSRRB M 1204-1	68.00							
Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 Tonne / km X 2.5 / km = 38.08	38.08							
Total	243.88							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
1000 4.1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kg with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.445cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM and machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (Page No. 13 / Item No. 4.2.1 PWD SR 2013-19	Cum							
For RCC Drain								
1000 18/19-4th cross		2	72.00	1.00	0.15	21.60		
1000 20/21		1	30.00	1.00	0.15	4.50		
1000 22/23		1	43.00	1.00	0.15	6.45		
1000 24/25		1	45.00	1.00	0.15	6.75		
1000 26/27		2	75.00	1.00	0.15	22.50		
1000 28/29		1	52.30	1.00	0.15	7.85		
1000 30/31		1	3.70	1.40	0.15	0.78		
For CC Road								
1000 32/33 near Kateramma Temple		1	80.00	3.60	0.15	43.20		
1000 34/35		1	43.00	3.30	0.15	21.29		
1000 36/37		1	54.00	3.20	0.15	25.92		
1000 38/39		1	118.00	3.40	0.15	60.18		
1000 40/41		1	50.00	3.00	0.15	22.50		
1000 42/43 mandir road		1	68.00	4.50	0.15	45.90		
1000 44/45 Road, 4th main		1	146.00	4.40	0.15	96.36		
1000 46/47 Khatke Road		1	92.00	4.80	0.15	66.24		
						452.01	5505.64	2488588.00
Basic Rate	5194.00							
Area Weightage @ 6%	311.64							
Total	5505.64							
Providing laying plain / reinforced cement concrete for foundations using M 20 nominal mix concrete with OPC at 220kg with 20 mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including centering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom (Section Page No. 271, Item No. 37.59.2, PWD SR 2013-19)	Cum							
Bottom Concrete								
1000 18/19-4th cross		2	72.00	0.80	0.15	17.28		
1000 20/21		1	30.00	0.80	0.15	3.60		
1000 22/23		1	43.00	0.80	0.15	5.16		
1000 24/25		1	45.00	0.80	0.15	5.40		
1000 26/27		2	75.00	0.80	0.15	18.00		
1000 28/29		1	52.30	0.80	0.15	6.28		
1000 30/31								
1000 32/33-4th cross		4	72.00	0.15	0.60	25.92		
1000 34/35		2	30.00	0.15	0.60	5.40		
1000 36/37		2	43.00	0.15	0.60	7.74		
1000 38/39		2	45.00	0.15	0.60	8.10		
1000 40/41		4	75.00	0.15	0.60	27.00		
1000 42/43		2	52.30	0.15	0.60	9.41		
1000 44/45		1	3.70	1.20	0.20	0.89		
1000 46/47		2	3.70	0.23	0.55	0.94		
Basic Rate	6670.00					141.11	7070.20	997705.00
Area Weightage @ 6%	400.20							
Total	7070.20							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
ITEM 4.5.2 : Providing T.M.T steel reinforcement for RCC work including straightening, cutting, bending, twisting, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Page No. 131 Item No. 4.46.2, PWD SR 2018-19	Tonne							
For RCC Drain @ 60 Kg / Cum		0.060	141.11			8.47	75223.96	636910.00
Basic Rate	70966.00							
Area Weightage @ 6%	4257.96							
Total	75223.96							
Providing precast slab of 100mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge - Data rate	Sqm							
100mm to 4th cross		2	72.00	0.75		108.00		
4th Cross		1	30.00	0.75		22.50		
5th Cross		1	43.00	0.75		32.25		
6th Cross		1	45.00	0.75		33.75		
7th Cross		2	75.00	0.75		112.50		
8th Cross		1	52.30	0.75		39.23		
9th Cross		1	112.00	0.90		100.80		
Water road						449.03	2337.00	1049371.00
Providing precast slab of 250mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge - (Data rate Approved).	Sqm							
		1	3.70	1.20		4.44		
						4.44	5418.00	24056.00
ITEM 4.5.5 : Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 10mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and etc., including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, (PWD SR-13) No-4.6)	Sqm							
100mm to 4th cross		2	72.00	0.20	0.10	2.88		
4th Cross		1	30.00	0.20	0.10	0.60		
5th Cross		1	43.00	0.20	0.10	0.86		
6th Cross		1	45.00	0.20	0.10	0.90		
7th Cross		2	75.00	0.20	0.10	3.00		
8th Cross		1	52.30	0.20	0.10	1.05		
9th Cross		1	112.00	0.20	0.10	2.24		
Water road		2	3.70	0.70	0.15	0.78		
						12.30	5747.32	70709.00
Basic Rate	5422.00							
Area Weightage @ 6%	325.32							
Total	5747.32							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 225mm and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc., complete Page No. 27 / Item No. 5.30 PWD SR 2018-19	No							
Side/End to 4th cross		2	72.00			320.00		
Main road		1	110.00			245.00		
Basic Rate	408.00					565.00	432.48	244351.00
Area Weightage @ 6%	24.48							
Total	432.48							
15-15.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Page No. 124 / Item No. Item No. 15.80, PWD SR 2018-19	Sqm							
Water/Bone Painting								
Side/End to 4th cross		2	72.00		0.35	50.40		
4th Cross		1	30.00		0.30	9.00		
10th Cross		1	43.00		0.30	12.90		
14th Cross		1	45.00		0.30	13.50		
7th Cross		2	75.00		0.30	45.00		
18th Cross		1	52.30		0.30	15.69		
Main road		1	112.00		0.35	39.20		
Basic Rate	37.00					185.69	39.22	7283.00
Area Weightage @ 6%	2.22							
Total	39.22							
15-15.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Page No. 124 / Item No. Item No. 15.81, PWD SR 2018-19	Sqm							
Side/End to 4th cross		2	72.00		0.35	50.40		
4th Cross		1	30.00		0.30	9.00		
10th Cross		1	43.00		0.30	12.90		
14th Cross		1	45.00		0.30	13.50		
7th Cross		2	75.00		0.30	45.00		
18th Cross		1	52.30		0.30	15.69		
Main road		1	112.00		0.35	39.20		
Basic Rate	85.00					185.69	90.10	16731.00
Area Weightage @ 6%	5.10							
Total	90.10							

	Sub Total Cost of KPWD SR Items	8448150
	12% GST on KPWD SR Items	1013778
	For 1% DPR Charges	100000
	For 4% KRDIL Charges	337926
	Miscellaneous and rounding off	145.81
	Total	9900000.00

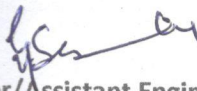
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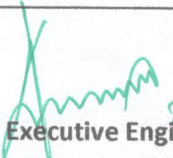
The rates adopted based on the, BWSSB SR 2017-18, PRED SR 2012-13, RWS SR 2012-13, KPWD Electrical SR 2015, PWD SR, Bangalore circle for year 2018-19.

The provisions made in the estimate are necessary and essential.

The workspot was inspected and work is found to be necessary.

The area comes within the Bruhat Bangalore Mahanagara Palike limits.


Junior/Assistant Engineer


Assistant Executive Engineer
22/10/19
Vidyaranyapura Sub-Division


Executive Engineer
22/11/19
Yelahanka Zone Division

Administrative Approval

Accorded For RS. 99.00 Lakhs
Head of A/C P-3727
CER NO : 25 Dt: 04/11/19

E.B. (Project)

Technical Sanction

Accorded For RS. 99.00 Lakhs
Head of A/C P-3727
CER NO : 166 Dt: 08.11.2019


DATE (YNK)